



MEPTURA

ENGINEERING BEYOND POSSIBILITIES

PRODUCT RANGE & SPECIFICATIONS

The Armstrong range, specified for Sri Lanka

Pumps, boosters, circulators, heat exchangers, fire safety packages and accessories available through Meptura (Pvt) Ltd as authorised agent for Armstrong Fluid Technology.



Authorised Agent, Sri Lanka

Meptura (Pvt) Ltd represents Armstrong Fluid Technology — designers and manufacturers of intelligent fluid flow equipment since 1934.

MEPTURA (PVT) LTD
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Product ranges listed in this document

25,000

Maximum USgpm from a single pump range

1250

Maximum horsepower available

1934

Armstrong established

How the figures should be read. Every specification here is the manufacturer’s published maximum for the range, not a guarantee for a particular unit. A pump is selected against a duty point, and the selection is issued with curves as part of the technical submittal. Treat this document as a shortlist tool, not a selection.

DESIGN ENVELOPE AND CONVENTIONAL PUMPS

Pumps

Vertical in-line, horizontal end-suction, split-case and multistage. Design Envelope units carry their intelligent controls on board, so there is no wall-mounted drive, no separate transformer and no differential-pressure sensor to wire.



DESIGN ENVELOPE

4322 Tango

Split-coupled twin pump on one casing. Two rotating assemblies share a single pipe drop, so one can be removed for service while the other carries 75–100% of flow.

Flow	to 900 USgpm
Head	to 160 ft
Power	1–10 hp
Size	1½"–3"
Temp	300°F



DESIGN ENVELOPE

4372 Tango

Close-coupled Tango with duty/standby operation. The compact option where plant room height is tight.

Flow	to 900 USgpm
Head	to 160 ft
Power	1–10 hp
Size	1½"–3"
Temp	250°F



DESIGN ENVELOPE

4302 dualArm

Split-coupled twin unit for duty/standby or parallel pumping. The larger sibling of Tango, where the duty exceeds 7.5 kW.

Flow	to 1250 USgpm
Head	to 250 ft
Power	1–75 hp
Size	3"–8"
Temp	250°F



DESIGN ENVELOPE

4382 dualArm

Close-coupled twin unit with the same parallel-pumping control.

Flow	to 1000 USgpm
Head	to 140 ft
Power	1–7½ hp
Size	3"–8"
Temp	250°F



DESIGN ENVELOPE

4300

The workhorse vertical in-line. A UL 778 pumping unit with integrated controls, spanning almost the whole commercial range.

Flow	25–25,000 USgpm
Head	10–300 ft
Power	1–1250 hp
Size	1½"–20"
Temp	300°F



DESIGN ENVELOPE

4380

Close-coupled vertical in-line for space-saving installation on smaller duties.

Flow	to 1000 USgpm
Head	to 140 ft
Power	1–10 hp
Size	1½"–6"
Temp	250°F

DESIGN ENVELOPE AND CONVENTIONAL PUMPS

Pumps, continued



DESIGN ENVELOPE

4200H

Base-mounted end-suction horizontal with integrated intelligent controls, for plant rooms where a horizontal set is specified.

Flow	25–4500 USgpm
Head	10–400 ft
Power	1–125 hp
Size	1.5"–8"
Temp	300°F



DESIGN ENVELOPE

4280

Motor-mounted horizontal unit with integrated controls for space-saving installation.

Flow	to 1000 USgpm
Head	to 125 ft
Power	1–7.5 hp
Size	1.5"–6"
Temp	250°F



DESIGN ENVELOPE

4280 single-phase DEPM

Permanent-magnet motor on a single-phase supply, for light commercial duties.

Flow	to 450 USgpm
Head	to 160 ft
Power	0.25–10 hp
Size	1"–6"
Temp	250°F



CONVENTIONAL

4312 vertical in-line twin

Split-coupled twin unit for duty/standby, without on-board controls.

Flow	to 1250 USgpm
Head	to 400 ft
Power	1–100 hp
Size	2"–6"
Temp	121°F



CONVENTIONAL

4392 vertical in-line twin

Close-coupled twin unit for duty/standby operation.

Flow	to 1250 USgpm
Head	to 350 ft
Power	0.33–60 hp
Size	2"–5"
Temp	250°F



CONVENTIONAL

4360 vertical in-line

Close-coupled pipe-mounted pump built for long service life on small duties.

Flow	to 350 USgpm
Head	to 200 ft
Power	0.33–15 hp
Size	1½"–3"
Temp	225°F

DESIGN ENVELOPE AND CONVENTIONAL PUMPS

Pumps, continued



CONVENTIONAL

4030 end-suction base mounted

NEMA-premium motors on a base-mounted end-suction frame, reducing cost across installation, operation and lifetime maintenance.

Flow	to 5000 USgpm
Head	to 600 ft
Power	0.33–300 hp
Temp	250°F



CONVENTIONAL

4280 motor mounted

End-suction pump close-coupled to the motor to minimise footprint.

Flow	to 2000 USgpm
Head	to 400 ft
Power	0.33–60 hp
Size	1"–6"
Temp	250°F



CONVENTIONAL

4270 stock motor mounted

Close-coupled horizontal pump designed for long service life and easy maintenance.

Flow	to 3600 USgpm
Head	to 130 ft
Power	0.33–60 hp
Size	1¼"–2"
Temp	275°F

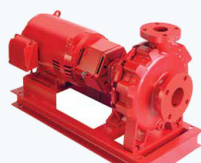


CONVENTIONAL

4700 vertical multistage

High head from a small footprint, designed for reliability and low maintenance cost.

Flow	to 400 USgpm
Head	to 900 ft
Power	½–50 hp
Size	1¼"–4"
Temp	250°F



CONVENTIONAL

4600 horizontal split case

Large-duty split-case pump with high-efficiency NEMA-premium motors.

Flow	to 7000 USgpm
Head	to 600 ft
Power	1½–500 hp
Temp	225°F

PACKAGED WATER SUPPLY AND PRESSURE BOOSTING

Boosters

Multiple-pump boosting sets with intelligent staging, automatic set-point adjustment and integrated variable frequency drives. Available in lead-free versions meeting potable water standards.



DESIGN ENVELOPE
6800 vertical multistage booster

An all-purpose set for higher flowrates and boost pressures. Multiple pump configurations keep design and commissioning flexible.

Flow	to 1962 USgpm
Pressure	to 320 psi
Power	to 250 hp



DESIGN ENVELOPE
6800G DEPM booster

Permanent-magnet motors with Design Envelope control. Higher efficiency, lower noise.

Flow	to 580 USgpm
Pressure	to 250 psi
Power	to 50 hp



DESIGN ENVELOPE
6900 vertical booster

The compact option for small and medium buildings, with the smallest footprint in its class.

Flow	to 500 USgpm
Pressure	to 100 psi
Power	to 40 hp

WET AND DRY ROTOR CIRCULATORS

Circulators

Hydronic circulators for heating, cooling and domestic hot water, in flange-to-flange dimensions that replace most installed models without repiping.



DESIGN ENVELOPE

Compass H

Wet rotor circulator built to replace existing fixed-speed units. Cast iron and stainless steel volutes.

Flow	to 20 USgpm
Head	to 20 ft
Power	5W–45W



DESIGN ENVELOPE

Compass R

Dry rotor circulator; a universal replacement across its capacity range.

Flow	to 140 USgpm
Head	to 40 ft
Power	$\frac{1}{4}$ – $\frac{1}{2}$ hp



E.2 SERIES

E.2 circulators

Advanced motor technology and efficient hydraulic design for excellent wire-to-water duty point efficiency.

Flow	to 140 USgpm
Head	to 60 ft
Size	$\frac{3}{4}$ "–3"
Temp	110°F



ASTRO

Astro 2 circulators

Circulates water or ethylene-glycol in closed hydronic and solar heating systems. Two volute materials available.

Flow	to 64 USgpm
Head	to 42 ft
Power	33W–218W



3-PIECE

1050 / 1060 circulators

For commercial systems needing higher flow and pressure, with a customisable flow curve.

Flow	to 250 USgpm
Head	to 55 ft
Power	$\frac{1}{6}$ –3 hp
Size	$\frac{3}{4}$ "–3"



3-PIECE

S&H circulators

Commercial three-piece circulator with the flexibility to tune the curve to the application.

Flow	to 250 USgpm
Head	to 55 ft
Power	$\frac{1}{6}$ –3 hp
Size	$\frac{3}{4}$ "–2"

WET AND DRY ROTOR CIRCULATORS

Circulators, continued



SERVICE

S&H circulator, less volute

A complete repair solution for the S&H line, and for rebuilding or upgrading selected competing models.

Flow	to 120 USgpm
Head	to 60 ft
Power	1/12–2 hp



DOMESTIC

Astro Express 2

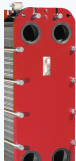
Circulator and low-flow valve combined, giving instant hot water in a residential plumbing system.

Flow	to 9½ USgpm
Head	to 6 ft
Power	33W
Union	1½"

PLATE, SHELL AND TUBE, AND TANK HEATERS

Heat Exchangers

Plate heat exchangers save up to 75% of the floor area and up to 85% of the floor length a shell and tube unit needs, including the space required to service it.



PFX SERIES

Plate and frame heat exchangers

Gasketed plate units optimised for water-to-water transfer. True counter-current flow lets the unit work at very low temperature approaches, with regeneration rates to 90%.

Flow	to 32,000 gpm
Duty	to 57,000,000 btu/hr
Pressure	435 psi / 30 bar
Plates	304, 316 SS, titanium



TANK HEATERS

Internal tube bundles

Designed for use with agitated or non-agitated tanks.

Pressure	150 psi standard
Temp	35–375°F
Size	4"–20"

FIRE PUMPS, PACKAGES AND CONTROLLERS

Fire Safety

Constructed, tested and certified to NFPA, UL, ULC and FM. Available as single electric, single diesel, one electric plus one diesel, two electric or two diesel configurations.



FIREPAK

Horizontal split case package

The full range of HSC fire pumps, electric or diesel driven, with controller. Mounted, piped and wired on a base at the factory.

Flow to 3000 USgpm
Drive Electric or diesel



FIREPAK

Vertical in-line package

Complete VIL package with electric motor and controller, designed to fit through a standard door.

Flow to 1500 USgpm
Drive Electric



FIRESET

Vertical in-line

The vertical arrangement saves up to 60% of the floor space an equivalent horizontal split-case set needs.

Flow to 1500 USgpm



DESIGN ENVELOPE

Fire pump

Factory-built integrated unit of pump, driver and variable speed control, holding the set pressure until maximum power draw.

Flow to 1500 USgpm
Power 20–250 hp
Ambient 50°F+



JOCKEY

4700 vertical multistage

The pressure-maintenance pump for a fire system.

Flow to 400 USgpm
Head to 900 ft
Power ½–50 hp
Size 1½"–4"

FITTINGS, SEPARATORS, TANKS AND VALVES

Accessories

The ancillary items that decide whether a well-specified plant room actually performs, and the usual source of low points and operating bottlenecks when they are left out.



FITTINGS
Suction guides

A 90° elbow, guide vanes and an in-line strainer in one body, cutting installation cost and floor space.

Size 1½"-20"



WATER QUALITY
Dirt and air separators

Removes trapped air and suspended dirt associated with the start-up and maintenance of hydronic and HVAC systems.



VESSELS
Expansion tanks

Plain steel, diaphragm and bladder types, reducing tank size by up to 80% over standard designs.

Plain steel	15-525 US gal
Diaphragm	8-211 US gal
Bladder	10-1056 US gal



WATER QUALITY
Glycol autofill units

Automatic glycol make-up with a moulded mixing tank, built-in controls housing and make-up pump.

Pressure to 90 psi cold-fill



BALANCING
Circuit balancing valves

Multi-turn adjustment for precise control, with hidden memory stops and soft seats for positive shutoff.

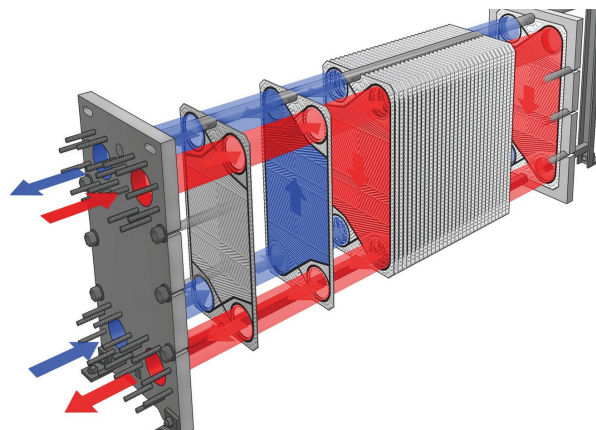
Small	½"-2", to 300°F
Large	2½"-12", to 230°F

TECHNICAL DATA

PFX plate heat exchangers

The PFX series uses stainless steel and titanium plates as the primary medium for heat transfer. Each plate is stamped with an optimised corrugated design. The series of plates creates alternating independent channels for the process and service fluids, configured to induce true counter-current flow, which lets the exchanger perform at extremely low temperature approaches.

As each fluid passes through its channel it flows over the chevrons — the corrugated pattern — which increases turbulence and so increases heat transfer through the plates. A gasketed seal separates the service side from the process side.



Space against shell and tube

PLATE	5.3 × 4.7 ft = 24.9 ft ² (2.29 m ²), model S106-1250
SHELL & TUBE	2.5 × 32.3 ft = 80.8 ft ² (7.5 m ²), model W2214

Floor area saved

up to 75%

Up to 85% of the floor length is saved as well, including the space needed to withdraw the plates or the tube bundle for service.

Design features worth specifying. Gaskets are double-vented at the port area to eliminate cross contamination, and attach to the plate one way only, which removes a class of assembly error. All tightening is done from the fixed end. Double-wall plates are available for domestic water.

FLOW RANGE	Up to 32,000 gpm (2000 L/s)
DUTY	Up to 57,000,000 btu/hr (16,700 kW)
MAX WORKING PRESSURE	435 psi (2999 kPa, 30 bar)
NITRILE GASKETS	284°F (140°C)
EPDM GASKETS, STANDARD	302°F (150°C)
EPDM GASKETS, STEAM	356°F (180°C)
PLATES	304 and 316 stainless steel, titanium
GASKETS	Nitrile, EPDM, Viton
REGENERATION	Up to 90% with counter-current flow
CERTIFICATION	ASME, PED, CRN, NSF 61; AHRI performance certified

PACKAGED SYSTEMS

Plant built in the factory

With the maximum share of work completed in the factory, all that is needed to complete the project is to connect the packaged plant on site. Packaged plants feature insulated structural design matching or exceeding building code requirements.



Configurations

Modular plant rooms	Chillers, boilers and boosters
Central utility plants	Complete utility provision
Intelligent fluid management	Integrated pumping and control
Fire pump houses	Packaged and enclosed sets

Benefits: reduced risk to programme, reduced risk of scope omission and cost impact, conformance to construction schedule, a single point of supplier accountability and expert design for optimal performance.

Automation and plant control

DE 4000	Integrated pumping system. Multi-zone control integrating directly with the pumping units; controls up to 8 pumps and 16 zones, with no limitation on system size or capacity.
DE IPC 9511	Integrated plant control for air-cooled plant. Controls up to five chillers and five pumps; integrates with all brands of chiller, pump and automation system.
DE IPC 9521	Integrated plant control for water-cooled plant, integrating with all brands of chiller, pump and BAS.
DE ITC 9521	Integrated tower control. Simplified tower automation with real-time flow metering accuracy and diagnostics.
DE EVERCOOL	Air-cooled or water-cooled chilled water system automation for data centres.
PUMP MANAGER	Real-time operating insight and early diagnostic warnings; full transparency on energy saving; pump maintenance cost reduced by up to 50% through predictive maintenance.

CERTIFICATION

Standards carried by the range

CATEGORY	STANDARD	APPLIES TO
Fire protection	NFPA, UL, ULC, FM	Fire pumps and packages — constructed, tested and certified to the strictest global standards
Pressure equipment	ASME, PED, CRN	Plate and frame heat exchangers, tank heaters and pressure vessels
Drinking water	NSF 61	Heat exchangers and lead-free booster versions for potable water
Thermal performance	AHRI certified	Plate heat exchanger performance ratings
Pump listing	UL 778	Design Envelope 4300 vertical in-line pumping units
Motor efficiency	NEMA Premium (IE3)	Induction motors across the booster and pump range
Motor efficiency	IE5	DEPM permanent magnet motors and Design Envelope iECM intelligent motor technology, delivering an additional 3–12% efficiency
Enclosure	UL Type 4X	Controls enclosure on DEPM pumps for outdoor operation

Warranty

Design Envelope equipment carries a three-year warranty covering the controls and the pump together. Because the drive is mounted on the pump rather than on a wall, a failure cannot fall between two suppliers.

Warranty is conditional on the equipment being commissioned correctly and maintained at the stated intervals. Our commissioning record and maintenance reports exist partly to demonstrate that this has been done.

HOW TO ENQUIRE

Getting a selection, not a catalogue page

A pump is not chosen from a maximum figure. It is chosen against a duty point — the flow and head the system actually needs — and then checked for where it sits on its curve at part load, which is where it will spend most of its life.

Send us the duty and we will come back with a selection, the curve, the efficiency at the duty point and the part-load behaviour. If the duty is not known, we will survey.

What we need

FOR PUMPS	Flow, head, fluid, temperature, and whether the system is variable or constant volume
FOR HEAT EXCHANGERS	Duty, both side flow rates, inlet and outlet temperatures, allowable pressure drop
FOR FIRE PUMPS	Required flow and pressure, standard being applied, driver preference, and the authority having jurisdiction
FOR BOOSTERS	Peak and minimum demand, inlet pressure, required discharge pressure, number of outlets
FOR A RETROFIT	Nameplate data of the installed equipment and, if available, a recent electricity bill



On retrofit proposals. Published Armstrong case studies report savings between 32% and 87% on buildings where constant-speed pumps were replaced with Design Envelope units. Those are real installations, but they are not a prediction for your building. We would rather datalog the existing plant for a week and give you a figure we can stand behind.

Contact

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